AMENDMENTS TO THE CLAIMS

- 1. (Original) An interface module for communicating messages with a remote location and to provide access to an at least one intelligent electronic device (IED) operably connected to a communication network, the interface module comprising:
 - a central processing unit;
 - an operating system operating the central processing unit;
 - a network interface for communicating with the communication network;
 - a protocol stack for managing the communication on the network;
 - a protocol task for processing the communication according to the protocol stack;
- a set of application tasks communicating with the protocol task for responding to an incoming message from the communication network and initiating an outgoing message to the communication network; and,

an interconnection bus with an interface driver for communicating with the at least one IED.

- 2. (Original) The interface module of claim 1 wherein the communication network is a worldwide Internet network using the Internet Protocol (IP).
- 3. (Original) The interface module of claim 2 operating as a Web site on the Internet, the interface module having a global IP address.
- 4. (Original) The interface module of claim 1 wherein the network interface is operably connected to a driver.
- 5. (Original) The interface module of claim 4 wherein the network interface is operably connected to an Ethernet driver.
- 6. (Original) The interface module of claim 4 wherein the network interface is operably connected to a SLIP/PPP driver.
- 7. (Original) The interface module of claim 1 wherein the protocol stack is a Transmission Control Protocol stack.
- 8. (Currently Amended) The interface module of claim 1 wherein the set of application tasks includes a control task for processing the <u>incoming and outgoing</u> messages

between a remote location and the at least one IED using an industrial communication standard Modbus over TCP/IP.

- 9. (Original) The interface module of claim 8 wherein the control task accepts a connection; parses a Modbus message; and, calls the operating system to process the Modbus message.
- 10. (Currently Amended) The interface module of claim 9 wherein the control task comprises means for processing the Modbus message received from the remote location over the emmunication network; accessing data on the at least one IED; and, sending back a response.
- 11. (Currently Amended) The interface of claim 10 wherein the control task further includes means for initiating the <u>Modbus</u> message allowing the at least one IED to communicate with the remote module.
- 12. (Original) The interface of claim 1 wherein the set of application tasks comprises a HTTP server task for processing the Hypertext Transport Protocol (HTTP) to provide a standard Web access to a remote Web browser.
- 13. (Original) The interface module of claim 12 wherein the HTTP server task accepts a connection; parses an HTTP message; and, calls the operating system to process the HTTP message.
- 14. (Original) The interface module of claim 13 wherein the HTTP message allows a user at a remote location to view data within the at least one IED from the browser operably connected to the communication network.
- 15. (Original) The interface module of claim 13 wherein the HTTP message allows a user at a remote location to write data within the at least one IED from the browser operably connected to the communication network.
- 16. (Original) The interface module of claim 2 wherein the set of application tasks comprises a FTP server task for processing a File Transfer Protocol (FTP).
- 17. (Original) The interface module of claim 16 wherein the FTP server task accepts a connection; parses an FTP message; and, calls the operating system to process the FTP message.

- 18. (Original) The interface module of claim 17 wherein the FTP message allows a user at a remote location to download a file for updating the operating software within the at least one IED through the Internet.
- 19. (Original) The interface module of claim 17 wherein the FTP message allows a user at a remote location to upload a file for obtaining data records from the at least one IED through the Internet.
- 20. (Currently Amended) The interface module of claim 1 <u>further comprising</u> wherein the data transfer enabling means comprises a dual TCP/IP stack.
- 21. (Original) The interface module of claim 20 wherein the dual TCP/IP stack comprises a first stack capable of handling a broad range of TCP/IP messages and a second stack capable of handling a less broad range of TCP/IP messages more quickly than the first stack is capable of handling the broad range of TCP/IP messages.
- 22. (Currently Amended) A control system for allowing a user access at a remote location site through a communication network, to information and data contained in an electrical network control system having an at least one intelligent electronic device (IED), the control system comprising:

means for coupling the remote <u>location</u> site to the communication network, the coupling means including a Web browser for interacting with the communication network;

a Web site associated with the electrical network control system and accessible through the communication network;

means for linking the electrical network control system to the Web site, the linking means including an interface module for coupling the at least one IED to the communication network;

means for coupling the interface module to the at least one IED and transferring messages between the interface module and the at least one IED;

means for enabling <u>transfer of a message</u> the message transfer between the remote location and the electrical network control system; and,

means for processing [[a]] the message received from the remote location over the communication network, the means for processing the message comprising means for receiving a

message; means for accessing the at least one IED for the message; and, means for sending a response to the remote location through the communication network.

- 23. (Original) The control system of claim 22 wherein the communication network is a worldwide Internet network using an Internet Protocol (IP).
- 24. (Original) The control system of claim 22 wherein the interface module operates as a Web site on the Internet, the interface module having a global IP address.
- 25. (Original) The control system of claim 24 wherein the interface module comprises a network driver for receiving the message from the Web browser on the Internet and for sending a response back to the Web browser.
- 26. (Original) The control system of claim 25 wherein the message transfer enabling means comprises a protocol task using a Transmission Control Protocol (TCP).
- 27. (Original) The control system of claim 26 wherein the protocol task implements a dual TCP stack.
- 28. (Original) The control system of claim 27 wherein the dual TCP stack comprises one stack capable of handling TCP/IP messages with a higher priority than the other stack.
- 29. (Original) The control system of claim 28 wherein the message processing means comprises a control task for processing a message exchange over the communication network between a remote application and the at least one IED using the industrial communication standard Modbus over TCP/IP.
- 30. (Original) The control system of claim 29 wherein the control task accepts a connection; parses a Modbus message; and, calls the operating system to process the Modbus message.
- 31. (Original) The control system of claim 30 wherein the control task includes means for processing the message received from the remote location over the communication network; accessing data on the at least one IED; and, sending back a response.
- 32. (Original) The control system of claim 31 wherein the control task further includes means for initiating the message allowing the IED to communicate with the remote location over the communication network.

- 33. (Original) The control system of claim 28 wherein the data message processing means includes a FTP server task for processing a File Transfer Protocol (FTP).
- 34. (Original) The control system of claim 33 wherein the FTP server task accepts a connection; parses an FTP message; and, calls the operating system to process the FTP message.
- 35. (Original) The control system of claim 34 wherein the FTP message allows a user at the remote location to download a file through the Internet for updating the operating software within the at least one IED associated with the electrical network control system.
- 36. (Original) The control system of claim 35 wherein the FTP message allows a user at the remote location to upload through the Internet a file for obtaining data records from the at least one IED associated with the electrical network control system.
- 37. (Original) The control system of claim 28 wherein the data message processing means includes a HTTP server task for processing a Hypertext Transport Protocol (HTTP) to provide access to the remote Web browser.
- 38. (Original) The control system of claim 37 wherein the HTTP task accepts a connection; parses an HTTP message; and, calls the operating system to process the HTTP message.
- 39. (Original) The control system of claim 38 wherein the HTTP message allows a user at the remote location to view the electrical network control system from a browser connected to the Internet.
- 40. (Original) The control system of claim 39 wherein the HTTP message allows a user at the remote location to write to the electrical network control system from a browser connected to the Internet.
- 41. (Original) The control system of claim 38 wherein the HTTP message allows a user at the remote location to view IED data from a browser connected to the Internet.
- 42. (Original) The control system of claim 39 wherein the HTTP message allows a user at the remote location to write IED data from a browser connected to the Internet.
- 43. (Original) The control system of claim 38 wherein a Java message allows a user at the remote location to view IED data from a browser connected to the Internet.

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- 44. (Original) The control system of claim 39 wherein a Java message allows a user at the remote location to write IED data from a browser connected to the Internet.
- 45. (Original) The control system of claim 38 wherein an ActiveX message allows a user at the remote location to view IED data from a browser connected to the Internet.
- 46. (Original) The control system of claim 39 wherein an ActiveX message allows a user at the remote location to write IED data from a browser connected to the Internet.
 - 47. (Canceled)
 - 48. (Canceled)